

KCC 4982 (K-C 19,185)
PATENT

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (original) An absorbent article comprising a liner material having a bodyfacing surface, the bodyfacing surface having deposited thereon a lotion formulation in an amount of from about 0.05 mg/cm² to about 100 mg/cm² and comprising from about 10% (by total weight of the formulation) to about 89% (by total weight of the formulation) of an emollient, from about 10% (by total weight of the formulation) to about 50% (by total weight of the formulation) of a structurant, and from about 0.1% (by total weight of the formulation) to about 40% (by total weight of the formulation) of a rheology enhancer, the rheology enhancer being selected from the group consisting of dextrin palmitate, dextrin palmitate ethylhexanoate, stearoyl inulin, combinations of alpha-olefins and styrene alone or in combination with mineral oil or petrolatum, combinations of di-functional alpha-olefins and styrene alone or in combination with mineral oil or petrolatum, combinations of alpha-olefins and isobutene alone or in combination with mineral oil or petrolatum, ethylene/propylene/styrene copolymers alone or in combination with mineral oil or petrolatum, butylene/ethylene/styrene copolymers alone or in combination with mineral oil or petrolatum, styrene/butadiene/styrene copolymers, styrene/isoprene/styrene copolymers, styrene-ethylene/butylene-styrene copolymers, styrene-ethylene/propylene-styrene copolymers, (styrene-butadiene)_n polymers, (styrene-isoprene)_n polymers, styrene-butadiene polymers, styrene-ethylene/propylene copolymers, polyethylene polyisobutylenes, polyisobutylenes, polyisobutenes, and combinations thereof.

KCC 4982 (K-C 19,185)
PATENT

2. (original) The absorbent article as set forth in claim 1 wherein the emollient is present in an amount of from about 30% (by total weight of the formulation) to about 80% (by total weight of the formulation).

3. (original) The absorbent article as set forth in claim 1 wherein the emollient is present in an amount of from about 60% (by total weight of the formulation) to about 80% (by total weight of the formulation).

4. (original) The absorbent article as set forth in claim 1 wherein the structurant is present in an amount of from about 20% (by total weight of the formulation) to about 40% (by total weight of the formulation).

5. (original) The absorbent article as set forth in claim 1 wherein the rheology enhancer is present in an amount of from about 0.5% (by total weight of the formulation) to about 30% (by total weight of the formulation).

6. (original) The absorbent article as set forth in claim 1 wherein the rheology enhancer is present in an amount of from about 1% (by total weight of the formulation) to about 25% (by total weight of the formulation).

7. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a melt point viscosity of from about 5000 cPs to about 1,000,000 cPs.

8. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a melt point viscosity of from about 50,000 cPs to about 800,000 cPs.

KCC 4982 (K-C 19,185)
PATENT

9. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a melt point viscosity of from about 100,000 cPs to about 500,000 cPs.

10. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a process temperature viscosity of from about 50 cPs to about 50,000 cPs.

11. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a process temperature viscosity of from about 75 cPs to about 10,000 cPs.

12. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a process temperature viscosity of from about 100 cPs to about 5,000 cPs.

13. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation further comprises an additional ingredient selected from the group consisting of antifoaming agents, antimicrobial actives, antiviral actives, humectants, antifungal actives, antiseptic actives, antioxidants, cosmetic astringents, drug astringents, biological additives, colorants, deodorants, film formers, fragrances, lubricants, natural moisturizing agents, skin conditioning agents, skin exfoliating agents, skin protectants, solvents, hydrophilic surfactants, and UV absorbers.

14. (original) The absorbent article as set forth in claim 1 wherein emollient is selected from the group consisting of petrolatum, mineral oil, mineral jelly, isoparaffins, vegetable oils, avocado oil, borage oil, canola oil, castor

KCC 4982 (K-C 19,185)
PATENT

oil, chamomile, coconut oil, corn oil, cottonseed oil, evening primrose oil, safflower oil, sunflower oil, soybean oil, sweet almond, lanolin, partially hydrogenated vegetable oils, polydimethylsiloxanes, methicone, cyclomethicone, dimethicone, dimethiconol, and trimethicone, organo-siloxanes silicone elastomers, gums, resins, fatty acid esters glyceryl esters and derivatives, fatty acid ester ethoxylates, alkyl ethoxylates, C₁₂-C₂₀ fatty alcohols, C₁₂-C₂₀ fatty acids, C₁₂-C₂₀ fatty alcohol ethers, Guerbet alcohols, Guerbet Acids, Guerbet Esters, and combinations thereof.

15. (original) The absorbent article as set forth in claim 1 wherein the structurant has a melting point of from about 45°C to about 85°C.

16. (original) The absorbent article as set forth in claim 1 wherein the structurant is selected from the group consisting of animal waxes, vegetable waxes, mineral waxes, synthetic waxes, polymers, bayberry wax, beeswax C₃₀ alkyl dimethicone, candelilla wax, carnauba, ceresin, cetyl esters, stearyl benzoate, behenyl benzoate, esparto, hydrogenated cottonseed oil, hydrogenated jojoba oil, hydrogenated jojoba wax, hydrogenated microcrystalline wax, hydrogenated rice bran wax, japan wax, jojoba buffer, jojoba esters, jojoba wax, lanolin wax, microcrystalline wax, mink wax, motan acid wax, motan wax, ouricury wax, ozokerite paraffin, PEG-6 beeswax, PEG-8 beeswax, rezowax, rice bran wax, shellac wax, spent grain wax, spermaceti wax, steryl dimethicone, synthetic beeswax, synthetic candelilla wax, synthetic carnauba wax, synthetic japan wax, synthetic jojoba wax, C₁₄-C₂₀ fatty alcohols, C₁₄-C₂₀ japan wax, synthetic jojoba wax, C₁₄-C₂₀ fatty acids, polyethylene, ethylene vinyl acetate copolymers, ethylene-alpha olefin copolymers, ethylene homopolymers, C₁₈-C₄₅

KCC 4982 (K-C 19,185)
PATENT

olefins, poly alpha olefins, hydrogenated vegetable oils, polyhydroxy fatty acid esters, polyhydroxy fatty acid amides, ethoxylated fatty alcohols and esters of C₁₂-C₂₈ fatty acids, C₁₂-C₂₈ fatty alcohols and combinations thereof.

17. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation is present in an amount of from about 1 mg/cm² to about 50 mg/cm².

18. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation is present in an amount of from about 10 mg/cm² to about 40 mg/cm².

19. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a penetration hardness of from about 40 to about 140.

20. (original) The absorbent article as set forth in claim 1 wherein the lotion formulation has a penetration hardness of from about 60 to about 120.

21. (original) An absorbent article comprising a liner material having a bodyfacing surface, the bodyfacing surface having deposited thereon a lotion formulation in an amount of from about 0.05 mg/cm² to about 100 mg/cm² and comprising from about 10% (by total weight of the formulation) to about 89% (by total weight of the formulation) of an emollient, from about 10% (by total weight of the formulation) to about 50% (by total weight of the formulation) of a structurant, and from about 1% (by total weight of the formulation) to about 40% (by total weight of the formulation) of a rheology enhancer, wherein the lotion formulation has a melt point viscosity of from about

KCC 4982 (K-C 19,185)
PATENT

5000 cPs to about 1,000,000 cPs and a process temperature viscosity of from about 50 cPs to about 50,000 cPs, the rheology enhancer being selected from the group consisting of dextrin palmitate, dextrin palmitate ethylhexanoate, stearoyl inulin, combinations of alpha-olefins and styrene alone or in combination with mineral oil or petrolatum, combinations of di-functional alpha-olefins and styrene alone or in combination with mineral oil and petrolatum, combinations of alpha-olefins and isobutene alone or in combination with mineral oil or petrolatum, ethylene/propylene/styrene copolymers alone or in combination with mineral oil or petrolatum, butylene/ethylene/styrene copolymers alone or in combination with mineral oil or petrolatum, styrene/butadiene/styrene copolymers, styrene/isoprene/styrene copolymers, styrene-ethylene/butylene-styrene copolymers, styrene-ethylene/propylene-styrene copolymers, (styrene-butadiene)_n polymers, (styrene-isoprene)_n polymers, styrene-butadiene polymers, styrene-ethylene/propylene copolymers, polyethylene polyisobutylenes, polyisobutylenes, polyisobutenes, and combinations thereof.

22. (original) The absorbent article as set forth in claim 21 wherein the emollient is present in an amount of from about 30% (by total weight of the formulation) to about 80% (by total weight of the formulation).

23. (original) The absorbent article as set forth in claim 21 wherein the emollient is present in an amount of from about 60% (by total weight of the formulation) to about 80% (by total weight of the formulation).

KCC 4982 (K-C 19,185)
PATENT

24. (original) The absorbent article as set forth in claim 21 wherein the structurant is present in an amount of from about 20% (by total weight of the formulation) to about 40% (by total weight of the formulation).

25. (original) The absorbent article as set forth in claim 21 wherein the rheology enhancer is present in an amount of from about 0.5% (by total weight of the formulation) to about 30% (by total weight of the formulation).

26. (original) The absorbent article as set forth in claim 21 wherein the rheology enhancer is present in an amount of from about 1% (by total weight of the formulation) to about 25% (by total weight of the formulation).

27. (original) The absorbent article as set forth in claim 21 wherein the melt point viscosity is from about 50,000 cPs to about 800,000 cPs.

28. (original) The absorbent article as set forth in claim 21 wherein the melt point viscosity is from about 100,000 cPs to about 500,000 cPs.

29. (original) The absorbent article as set forth in claim 21 wherein the process temperature viscosity is from about 75 cPs to about 10,000 cPs.

30. (original) The absorbent article as set forth in claim 21 wherein the process temperature viscosity is from about 100 cPs to about 5,000 cPs.

KCC 4982 (K-C 19,185)
PATENT

31. (original) The absorbent article as set forth in claim 21 wherein emollient is selected from the group consisting of petrolatum, mineral oil, mineral jelly, isoparaffins, vegetable oils, avocado oil, borage oil, canola oil, castor oil, chamomile, coconut oil, corn oil, cottonseed oil, evening primrose oil, safflower oil, sunflower oil, soybean oil, sweet almond, lanolin, partially hydrogenated vegetable oils, polydimethylsiloxanes, methicone, cyclomethicone, dimethicone, dimethiconol, and trimethicone, organo-siloxanes silicone elastomers, gums, resins, fatty acid esters glyceryl esters and derivatives, fatty acid ester ethoxylates, alkyl ethoxylates, C₁₂-C₂₀ fatty alcohols, C₁₂-C₂₀ fatty acids, C₁₂-C₂₀ fatty alcohol ethers, Guerbet alcohols, Guerbet Acids, Guerbet Esters, and combinations thereof.

32. (original) The absorbent article as set forth in claim 21 wherein the structurant has a melting point of from about 45°C to about 85°C.

33. (original) The absorbent article as set forth in claim 21 wherein the structurant is selected from the group consisting of animal waxes, vegetable waxes, mineral waxes, synthetic waxes, polymers, bayberry wax, beeswax C₃₀ alkyl dimethicone, candelilla wax, carnauba, ceresin, cetyl esters, stearyl benzoate, behenyl benzoate, esparto, hydrogenated cottonseed oil, hydrogenated jojoba oil, hydrogenated jojoba wax, hydrogenated microcrystalline wax, hydrogenated rice bran wax, japan wax, jojoba buffer, jojoba esters, jojoba wax, lanolin wax, microcrystalline wax, mink wax, motan acid wax, motan wax, ouricury wax, ozokerite paraffin, PEG-6 beeswax, PEG-8 beeswax, rezowax, rice bran wax, shellac wax, spent grain wax, spermaceti wax, steryl dimethicone, synthetic beeswax,

KCC 4982 (K-C 19,185)
PATENT

synthetic candelilla wax, synthetic carnauba wax, synthetic japan wax, synthetic jojoba wax, C₁₄-C₂₈ fatty alcohols, C₁₄-C₂₈ fatty acids, polyethylene, ethylene vinyl acetate copolymers, ethylene-alpha olefin copolymers, ethylene homopolymers, C₁₈-C₄₅ olefins, poly alpha olefins, hydrogenated vegetable oils, polyhydroxy fatty acid esters, polyhydroxy fatty acid amides, ethoxylated fatty alcohols and esters of C₁₂-C₂₈ fatty acids, C₁₂-C₂₈ fatty alcohols and combinations thereof.

34. (original) The absorbent article as set forth in claim 21 wherein the lotion formulation further comprises an additional ingredient selected from the group consisting of antifoaming agents, antimicrobial actives, antiviral actives, humectants, antifungal actives, antiseptic actives; antioxidants, cosmetic astringents, drug astringents, biological additives, colorants, deodorants, film formers, fragrances, lubricants, natural moisturizing agents, skin conditioning agents, skin exfoliating agents, skin protectants, solvents, hydrophilic surfactants, and UV absorbers.

35. (original) The absorbent article as set forth in claim 21 wherein the lotion formulation has a penetration hardness of from about 40 to about 140.

36. (original) The absorbent article as set forth in claim 21 wherein the lotion formulation has a penetration hardness of from about 60 to about 120.

37. (currently amended) An absorbent article comprising a liner material having a bodyfacing surface, the bodyfacing surface having deposited thereon a lotion formulation in an amount of from about 0.05 mg/cm² to about 100 mg/cm² and

KCC 4982 (K-C 19,185)
PATENT

comprising from about 10% (by total weight of the formulation) to about 89% (by total weight of the formulation) of an emollient, from about 10% (by total weight of the formulation) to about 50% (by total weight of the formulation) of a structurant, and from about 0.1% (by total weight of the formulation) to about 40% (by total weight of the formulation) of Versagel a rheology enhancer selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; mineral oil and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; petrolatum and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isononyl isononanoate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isododecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isohexadecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isopropyl palmitate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; and combinations thereof.

38. (new) The absorbent article as set forth in claim 37 wherein the rheology enhancer is selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene

KCC 4982 (K-C 19,185)
PATENT

copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; and combinations thereof.

39. (new) The absorbent article as set forth in claim 1 wherein the rheology enhancer is selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; mineral oil and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; petrolatum and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isononyl isononanoate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isododecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isohexadecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isopropyl palmitate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; and combinations thereof.

40. (new) The absorbent article as set forth in claim 39 wherein the rheology enhancer is selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; and combinations thereof.

KCC 4982 (K-C 19,185)
PATENT

41. (new) The absorbent article as set forth in claim 21 wherein the rheology enhancer is selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; mineral oil and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and butylene/ethylene/styrene copolymers; hydrogenated polyisobutene and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; petrolatum and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isononyl isononanoate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isododecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isohexadecane and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; isopropyl palmitate and ethylene/propylene/styrene copolymers and butylene/ethylene/styrene copolymers; and combinations thereof.

42. (new) The absorbent article as set forth in claim 41 wherein the rheology enhancer is selected from the group consisting of mineral oil and ethylene/propylene/styrene copolymers; mineral oil and butylene/ethylene/styrene copolymers; mineral oil and styrene; petrolatum and styrene copolymers; polyisobutylene; and combinations thereof.